

# Aquilegia

Newsletter of the Colorado Native Plant Society



“ . . . dedicated to the appreciation and conservation of the Colorado native flora ”

Volume 28 Number 4

WORKSHOP EDITION

September - October 2004

## 2004-2005 COLORADO NATIVE PLANT SOCIETY WORKSHOP PROGRAM

Mignon Macias, Workshop Committee Chair

Thanks to so many wonderful Colorado Native Plant Society Members, we have another exciting workshop season this year. Six workshops have been organized to take place this season. Boulder, Denver and Colorado Springs are the locations for the workshops. Some of the upcoming workshop topics include

- Paleobotany
- Mosses of Colorado
- Beginner Plant ID
- Mycorrhizal Associations

Workshops have always been very popular and often we have been unable to accept everyone. Please help us accommodate all those who wish to attend a workshop.

### Workshops

#### **VIOLACEAE OF COLORADO**

**Leaders: Tass Kelso & Bill Jennings**

**Location: Colorado College, Colorado Springs**

**First Session: November 6, 2004**

**Second Session: November 7, 2004**

**Time: 9 am to 3pm**

### Registration Information

This year, announcements and registration will be handled in a different manner from previous years. Workshops will be announced at three times - in the fall (September/October), winter (February/March) and spring (April/May) newsletters. Registration is **mail-in only** and requires **payment at the time of registration**. The fee for attending a workshop for members is \$12/session. Non-members pay a one time fee of \$27 for the first session (which includes a year membership) and \$12 for each subsequent session. **THE REGISTRATION FEE IS NON-REFUNDABLE.**

To register, please include workshop title, your name, address, telephone number, email address and an address label. Registration can only be processed with all of this information. Include the workshop fee of \$12 (members) or \$27 (non-members) and mail to

Workshop Coordinator-Mignon  
CONPS  
P.O. Box 200  
Fort Collins, CO 80522

For those of you who must cancel at the last minute, we appreciate your \$12 contribution to CONPS and ask that you email or call Mignon Macias, [mignonmacias@mindspring.com](mailto:mignonmacias@mindspring.com) or 303.249.2977, so she has an opportunity to fill your spot.

Tass Kelso and Bill Jennings have been studying the violets of Colorado for the last several years. As a result of these observations, they have some new ideas about the classification and nomenclature of Colorado's violets, as well as tips for identification. It appears that many of the species attributed to Colorado are part of polyploid complexes and may be better treated by grouping similar forms under the same name. Under this approach, only about 15 taxa actually occur in Colorado in two genera (*Hybanthus* and *Viola*). Learn about this group which reproduces by seeds, stolons, and cleistogamous (self-fertilizing) flowers, producing a bewildering array of forms, often in the same population.

*“Workshops” continues on page 2*

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*"Workshops" continued from page 1*

### **PLANT ECOLOGY: BEGINNING SOILS**

**Leader: David Buckner**

**Location: Foothills Nature Center, Boulder**

**First Session: January 15, 2005**

**Second Session: January 16, 2005**

**Time: 9 am to 3pm**

An understanding of the ecology of native vascular plants of Colorado requires an understanding of the nature of the soils that they occupy. This workshop will take an elementary look at the major physical, chemical, and biological properties of soils and how these affect the distribution of vascular plants. Geology, geomorphology and biological modification also bear on the ecological nature of growth media in western landscapes. The participant will be offered the basics of these properties and processes along with examples of how plant community and individual plant species' occurrence are affected. There will be selected hands-on learning opportunities available during the day.

**Watch for more workshop announcements in upcoming newsletters.**

## **Society Announcements**

### **Annual Meeting Results**

For those of you who did not attend the annual meeting, it was an exceptional event. Karen Vail did an excellent job on the arrangements. Many thanks to her and all those who helped her, including Dick and Marty Fisher, and John Proctor.

CONPS members elected six board members - five will serve a two-year term, and the sixth will fill the remainder of Pat Ploegsma's term (until September 2005). Newly elected board members, serving two year terms, are

Jennifer Ackerfield  
John Giordanengo  
Brad Johnson  
Gwen Kittel  
Jan Loechel

Laurel Potts will serve the remainder of Pat Ploegsma's term.

Additional information on the annual meeting, including the Society Awards and the silent auction, and the new board members will be in a future newsletter issue.

### **Board of Directors**

At the board meeting on Sunday, the Board approved the dual position of Chapter President and Treasurer for Naomi Nigro, the new Denver Chapter President, as well as elected officers for the coming year. Officers for 2004/2005 are

Laurel Potts - President  
Dave Anderson - Vice President  
Kim Regier - Secretary  
Naomi Nigro - Treasurer

The Board designated the following dates for Board meetings:

November 13

January 8

March 5

April 9

May TBD, West Slope

Final meeting locations will be available by contacting Kim Regier, 303-556-8309, or kimberly.regier@cudenver.edu.

### **Sales Committee**

The Sales Committee is looking for members interested in being part of the Book Sales Committee. We need someone to work with Amazon.Com and also explore ways to increase sales for the Society. Additionally, we need a member to help coordinate the Used Book Sale planned for early next year. Please consider this opportunity to help your Society. Contact April Wasson to volunteer, 303-763-7679 or apriladw@earthlink.net.

### **Southeast Chapter**

The Southeast Chapter is recruiting for Chapter President. For information on duties or to volunteer, please contact Doris Drisgill, Ddrisgill@cs.com, 719-578-1091, or George Cameron, gpcameron@juno.com, 719-634-4431.

## **Message from the President**

### ***Welcome and Thanks!***

The Colorado Native Plant Society's Annual Meeting, held in September, is a time of elections where we vote for new Board of Directors members and Officers. This year we have two officers passing the torch after holding office for FOUR years each. These outgoing stars are President Jill Handwerk and Treasurer Georgia Doyle. Many thanks to both as well as departing Board Members Mark Simmons and Neil Snow. I'm serving as President and our new Treasurer (and Denver Chapter President!) is Naomi Nigro. Dave Anderson and Kim Regier have graciously agreed to continue as Vice-President and Secretary respectively.

Congratulations to Society Award recipients Carolyn Crawford, Lifetime Membership; and Andy Kratz and Pat Ploegsma, Special Merit Awards.

Welcome to the new "crop" of Directors: Jennifer Ackerfield, John Giordanengo, Brad Johnson, Gwen Kittel (returning), and Jan Loechel. I look forward to working with all of them and continue great work for Colorado's flora.

*Laurel Potts*



*Viola adunca*  
from Tass Kelso,  
Colorado College

COLORADO NATIVE PLANT SOCIETY DISCOUNTED PUBLICATIONS				October 1, 2004			
<b>Sale Books in bold type - While supplies last</b>	Author	Cost	Ship				
Alpine Flower Finder	Wingate & Yeatts	\$6.00	\$2.00				
American Cockerell, The	Weber, W.A.	\$25.00	\$2.75				
Atlas of the Grasses of Colorado	Rubright, L.	\$16.00	\$2.00				
Botanical Latin (soft cover)	Stearn, W.T.	\$27.00	\$2.75				
Botany for Gardeners	Capon, B.	\$15.00	\$2.00				
<b>Bring Back the Buffalo!</b>	<b>Callenbach, E.</b>	<b>\$12.00</b>	<b>\$2.25</b>				
Butterfly Gardening: A Guide for Colorado Gardeners	Sarada Krishnan	\$7.50	\$2.00				
Catalog of the Colorado Flora: A Biodiversity Baseline	Weber, W. et al.	\$40.00	\$3.25				
Colorado Flora: East Slope, 2001 Edition	Weber & Wittmann	\$22.00	\$2.50				
Colorado Flora: West Slope, 2001 Edition	Weber & Wittmann	\$22.00	\$2.50				
<b>Colorado's Best Wildflower Hikes V.2 High Country</b>	<b>Irwin, P.</b>	<b>\$12.00</b>	<b>\$2.75</b>				
Columbines: Aquilegia, Paraquilegia, and Semiaquilegia	Nold, R.	\$22.00	\$2.50				
Common Rocky Mountain Lichens	St. Clair, L.	\$17.50	\$2.75				
Common Southwestern Native Plants: An Identification Guide	Carter, Carter, and Stevens	\$16.00	\$2.75				
Dictionary of Word Roots	Borrer, D.J.	\$10.50	\$2.00				
Edible Wild Plants of the Prairie	Kindscher, K.	\$12.00	\$2.00				
Edible Wild Plants of the Rocky Mountains	Harrington, H.D.	\$15.00	\$2.75				
<b>Encyclopedia of Ornamental Grasses</b>	<b>Greenlee, J.</b>	<b>\$19.00</b>	<b>\$3.50</b>				
Field Guide to the North American Prairie (Peterson)	Jones & Cushman	\$17.50	\$2.50				
Field Guide to the Wetland and Riparian Plant Associations of Colorado	Carsey, Kittel, Decker, Cooper, and Culver	\$30.00	\$2.75				
Flames in our Forests	Arno&Allison-Bunnell	\$16.50	\$2.50				
Flora of the Great Plains	Grt Plns Fra Ass.	\$44.00	\$3.75				
Flora of the Gunnison Basin	Barrell, J.	\$15.00	\$2.75				
Flora of North America Vol. 2	FLNA ed.	\$89.00	\$4.00				
Flora of North America Vol. 3	FLNA ed.	\$89.00	\$4.00				
Flora of North America Vol. 4	FLNA ed.	\$89.00	\$4.00				
Flora of North America Vol. 22	FLNA ed.	\$89.00	\$4.00				
Flora of North America Vol. 23	FLNA ed.	\$109.00	\$4.00				
Flora of North America Vol. 25	FLNA ed.	\$109.00	\$4.00				
Flora of North America Vol. 26	FLNA ed.	\$109.00	\$4.00				
Flora of the San Juans	Komarek, S.	\$15.00	\$2.00				
Floristic Survey of Eagles Nest Wilderness Area	Hogan, T.	\$4.00	\$2.00				
<b>Forgotten Pollinators</b>	<b>Nabhan, G.</b>	<b>\$11.00</b>	<b>\$2.00</b>				
<b>Gathering the Desert</b>	<b>Nabhan, G.</b>	<b>\$10.00</b>	<b>\$2.00</b>				
Grass Varieties in the United States	USDA	\$69.00	\$2.75				
Grassland to Glacier, From	Mutel & Emerick	\$18.50	\$2.50				
Grow Native: Landscaping with Native and Apt Plants of the Rocky Mountains	Huddleston & Hussey	\$13.50	\$2.00				
<b>Guide to Colorado Wildflowers, V.1, Plains</b>	<b>Guennell, G.K.</b>	<b>\$15.00</b>	<b>\$2.75</b>				
<b>Guide to Colorado Wildflowers, V.2, Mountains</b>	<b>Guennell, G.K.</b>	<b>\$15.00</b>	<b>\$2.75</b>				
Historical Ecology Handbook	Egan & Howell	\$28.00	\$2.75				
How to ID Grasses & Grasslike Plants	Harrington, H.D.	\$10.00	\$2.00				
How to Identify Plants	Harrington et al.	\$10.00	\$2.00				
Illustr. Keys to Early Spring Wildflowers: Front Range	Wingate, J.L.	\$1.50	\$1.25				
Illustrated Keys to the Grasses of Colorado	Wingate, J.L.	\$7.50	\$2.00				
Intermountain Flora - Volume 3A	Cronquist et al.	\$66.00	\$3.75				
Intermountain Flora - Volume 3B	Barneby, R. C.	\$53.00	\$3.75				
Intermountain Flora - Volume 4	Cronquist et al.	\$66.00	\$3.75				
Intermountain Flora - Volume 5	Cronquist, A.	\$66.00	\$4.00				
Intermountain Flora - Volume 6	Cronquist et al.	\$66.00	\$4.00				
Land above the Trees	Zwinger, A.	\$16.00	\$2.75				
Last Prairie, The: A Sandhills Journal	Jones, S.	\$18.00	\$2.50				
Lichens of North America	Brodo, Sharnoff, Sharnoff	\$73.00	\$5.50				
Medicinal Wild Plants, Desert and Canyon West	Moore, M.	\$11.00	\$2.75				
Medicinal Plants, Mountain West	Moore, M.	\$11.00	\$2.75				

<b>Sale Books in bold type - While supplies last</b>	Author	Cost	Ship
Medicinal Wild Plants of the Prairie	Kindscher, K.	\$12.00	\$2.75
Mountain Blooms	Johnson Books	\$4.75	\$2.00
Mushrooms of Colorado	Evenson, V.S.	\$18.75	\$2.75
Native and Naturalized Leguminosae of U.S.	Iseley, D.	\$56.00	\$4.00
Native Plants for High-elevation Western Gardens	Busco & Morin	\$23.50	\$3.00
Once and Future Forest, The: A Guide to Forest Restoration Strategies	Sauer, L.J.	\$28.50	\$2.75
<b>Ornamental Water Gardening</b>	<b>Weinstein, G ed.</b>	<b>\$2.00</b>	<b>\$1.50</b>
Penstemons	Nold, R.	\$25.00	\$2.50
Plant Identification Terminology	Harris, J. et al.	\$16.00	\$2.75
Plants of Rocky Mountain National Park	Beidleman	\$19.00	\$2.50
Plants of the Rocky Mountains	Kershaw et al.	\$16.50	\$2.75
Prairie Conservation	Sampson&Knopf	\$28.50	\$2.50
Rare Plants of Colorado II	CONPS	\$14.00	\$2.75
Restoring Diversity	Falk et al.	\$32.50	\$2.75
Roadside Use of Native Plants	Harper-Lore, B.	\$20.50	\$2.75
Roadside Wildflowers of Southern Great Plains	Freeman	\$15.00	\$2.00
<b>Rocky Mountain Berry Book</b>	<b>Drumm, B.</b>	<b>\$6.00</b>	<b>\$2.00</b>
Rocky Mountain Flower Finder	Wingate, J.L.	\$4.75	\$2.00
Rocky Mountain Lichen Primer	Corbridge&Weber	\$18.50	\$2.00
Sagebrush Country: A Wildflower Sanctuary	Taylor, R. J.	\$11.00	\$2.00
Saving Nature's Legacy	Noss&Cooperrider	\$30.50	\$2.50
Simplified Guide to Common Colorado Grasses, A	Wingate, J.L.	\$3.25	\$1.25
Song of the Alpine: RM Tundra through the Seasons	Gellhorn, J.	\$18.00	\$2.75
Southern Rocky Mountain Wildflowers	Robertson, L.	\$12.50	\$2.00
<b>Southwestern Landscaping with Native Plants</b>	<b>Phillips, J.</b>	<b>\$16.00</b>	<b>\$2.75</b>
Trees and Shrubs of Colorado	Carter, J.	\$11.50	\$2.00
<b>Utah Flora, A 1993 ed.</b>	<b>Welsh, Atwood, et al</b>	<b>\$48.00</b>	<b>\$4.00</b>
Utah Flora, A 2003 ed.	Welsh, Atwood, et al	\$77.00	\$4.00
Vascular Plants of Wyoming, 3rd ed.	Dorn, R.	\$17.00	\$2.50
<b>Waterwise Landscaping with Trees, Shrubs, and Vines</b>	<b>Knopf, J.</b>	<b>\$15.00</b>	<b>\$2.75</b>
Weeds of the West, 2nd ed.	Whitson, T., Ed.	\$21.00	\$3.75
<b>Welfare Ranching</b>	<b>Wuerthner&amp;Matteson</b>	<b>\$17.00</b>	<b>\$4.50</b>
<b>Xeriscape Flower Gardener</b>	<b>Knopf, J.</b>	<b>\$12.00</b>	<b>2.75</b>
<b>CDs</b>			
Interactive Plant Keys for Colorado (XID)	Barnes, B.	\$75.00	\$2.50
Manual of the Plants of Colorado (CD version)	Harrington, H.D.	\$15.00	\$2.50
What's that Wildflower? (CD for Western Rockies)	Harte	\$15.00	\$2.50
<b>Merchandise</b>			
CONPS Hats (one size)		\$15.00	\$3.00
CONPS Patches		\$6.00	\$0.50
CONPS Tote Bags		\$16.00	\$2.75
<b>Please add the following taxes where applicable:</b>		Book Total:	
City of Boulder 7.66%		Sales Tax:	
All other Boulder County 4.25%		Shipping Total:	
City and County of Denver 7.2%		<b>ORDER TOTAL:</b>	
City of Colorado Springs 6.4%	Make checks payable to: Colorado Native Plant Society		
All other El Paso County 3.9%	<b>Mail order and check to:</b>		
City of Fort Collins 6.7%	April Wasson	E-mail: apriladw@earthlink.net	
All other Larimer County 3.7%	1482 S. Pierson St. #76		
All other Colorado 2.9%	Lakewood, CO 80232	<b>Tax Exempt #</b>	
States other than Colorado--no tax	<b>PLEASE INCLUDE NAME, ADDRESS, &amp; PHONE NUMBER.</b>		

## Botanical Article

### CALCIPHILY

Dr. David Buckner, Plant Ecologist

The affinity of some plant species for calcareous substrates is one of the oldest observations in ecology (Warming 1909, Schimper 1903, Thurmman 1849), having originally been studied in the Calcareous Alps of central Europe. In Colorado, the phenomenon has been documented most prominently from Hoosier Ridge between Fairplay and Breckenridge. There, the Leadville Limestone is the location of occurrence of several rare plant species. Some of these are disjuncts, i.e. plants that occur in far disjunct geographic locales, in varying degrees of commonness. Others are endemics (plants that occur in a single relatively confined area and nowhere else) that may have evolved since geographic separation from related plants after climate change removed suitable habitat in between.

To varying degrees, plants tolerate scarcity of essential resources, such as nutrients. Those least tolerant of the scarcity of a given nutrient are likely to be most abundant where that nutrient is present in abundance. As a consequence of low availability of the nutrient in the general landscapes of a region, species least tolerant of scarcity may be found only on the few sites where the nutrient is available in sufficient amounts. If the nutrient in question is calcium, then sites of greatest abundance are likely to be those where the geologic parent material is rich in calcium, especially limestone or gypsum sites.

In zones of high precipitation, water percolating through the soil removes or leaches many cations, including calcium, out of the root zone. Fortunately, calcium is added to soils at a small rate as minerals weather and decompose through natural chemical processes. In arid and semi-arid environments, calcium produced by weathering actually exceeds leaching losses and the element can accumulate, resulting (along with the presence of other cations) in "alkaline" soils that are widespread in western North America. Consequently, under present climatic conditions in Colorado environments, the abundant availability of calcium is widespread in natural soils and not confined to lime-

stone/gypsum sites except in a few areas where precipitation is high and soil leaching is active. In the context of high subalpine and alpine environments, where typical annual precipitation may exceed 30 inches per year, soil leaching actually is strong enough to effect calcium depletion. High altitude soils of Colorado are commonly possessed of features related to strong leaching, not the least of which is generally lower pH. Thus, high-altitude occurrences of Leadville Limestone in Colorado, such as at Hoosier Ridge, may represent sites of significantly greater biological calcium availability

It should be noted that "calciphily" is not a phenomenon confined to, or exclusively associated with, rare plants. It merely suggests an affinity for calcium. Common species may have their distributions adjusted by the presence of varying amounts of calcium also. For example, the position of the upper limit of growth of Engelmann spruce (*Picea engelmannii*) and subalpine fir (*Abies lasiocarpa*) in the Tenmile Range of central Colorado has been observed to be adjusted by the local position of the boundary between calcareous and non-calcareous soil parent material (Curry 1962).

#### Literature Cited

Curry, Robert R. 1962. Geobotanical correlations in the alpine and subalpine regions of the Tenmile Range, Summit County, Colorado. M.S. Thesis., Univ. of Colo.

Schimper, A.F.W. 1903. Plant Geography upon a Phytosociological Basis. (Transl. by W.R. Fisher) Oxford: Clarendon Press. 839 p.

Thurmman, J. 1849. Essai de phytostatique applique a' la chaine du Jura. Berne. (as cited in: Lundegardh, Henrik. 1949. Klima und Boden in ihrer Wirkung auf das Pflanzenleben. 3rd ed. Gustav Fischer, Jena).

Warming, E. 1909. Oecology of Plants. (Transl. by P. Groom and I.B. Balfour) Oxford: Clarendon Press. 422 p.



Engelmann Spruce,  
*Picea engelmannii*.  
©W.L. Wagner.  
Courtesy of  
Smithsonian  
Institution, Dept. of  
Systematic Biology,  
Botany @ PLANTS  
Database.

### AQUILEGIA DEADLINE - NOV. 10

Submit contributions for Vol. 28, No. 5 by Nov. 10, 2004. Articles less than 1000 words are especially welcome. Previously published articles submitted for reprinting require permission. Submit via e-mail or on disks as an MS Word or rtf document. See page 7 for additional information.

## CHAPTER NEWS

### Boulder Chapter

Monthly meetings are the on the second Thursday of the month at 7 PM at the City of Boulder Open Space and Mountain Parks offices in the north building conference room, 66 South Cherryvale Road. From South Boulder Road, go south on Cherryvale 1/10 mile and turn west onto a lane to the offices. Contact Tommi Scanes, scanescan@comcast.net or 303-682-1208.

**October 14 GIS and Remote Sensing.** Dr Karl Brown will talk to us about using technology to further botanical and ecological interests by the use of GIS and Remote Sensing in the USGS-NPS Vegetation Mapping program.

**November 11 Xeriscaping with Natives in Colorado.** Jim Knopf. We will have his books available for autographing.

**December 9 Potpourri of Flower Pictures with Peripatetic Ecological Annotations.** Dr. David Buckner.

**January 13 Boulder County's Rare Plants.** Ann Armstrong

**February 10 The Wonderful World of Common Names.** Ron West, Boulder County Open Space Department.

**Mar. & April Topic TBA.**

**May 12 Annual Picnic**

### Fort Collins Chapter

Month meetings are held at 7 PM at the Gardens on Spring Creek, 2145 Centre Ave. Ft. Collins. Dinner with the speaker will be at 5:15 pm at The Rainbow on Laurel St. Please contact Annette Miller the day before if you will join us for dinner. Leave a message at 482-3063 or 495-3240 or almill@lamar.colostate.edu.

**October 13 Cheatgrass Control and Community Restoration in Rocky Mountain National Park.** Helen Rowe. Leadership election for the chapter.

**November 3 Conservation of Rare Plants of Colorado.** David G. Anderson, Colorado Natural Heritage Program.

**December 7 Effects of Deicers on Tree Physiology and Seed Germination.** Nicole Trahan.

**February Soil Seedbank Studies in Teddy Roosevelt National Park.** Julie Laufmann.

**March Rare Plants of Larimer County.** Georgia Doyle and Dave Anderson.

**April Native Plants for Landscaping.**

### Metro-Denver Chapter

Monthly meetings are held September through April at 7 PM in the Waring House at the Denver Botanic Garden (the mansion just south of the main entrance on York Street). To enter, head south on York past the Gardens main entrance. Make an immediate right into parking lot that says "Staff Parking." Members are invited to join speakers at 5:30 PM for pizza at Angelo's, 620 East 6th Ave (between Pearl and Washington) in Denver. For more information, contact Chapter President Naomi Nigro, 303-366-6033, or email naomi4CoNPS@hotmail.com.

**October 26 The Use of Morphology and Genetics in Determining Relationships within a Desert Sunflower Genus.** Shannon Kuchel Fehlberg, a graduate student at the University of Colorado at Boulder, will discuss morphological and adaptive variation in the sunflower genus *Encelia*, and compare it to genetic variation based on DNA sequences.

**December 7 Shock and Awe: Weapons of Botanical Defense.** Fran Blanchard and Mary Ann McMullen, the Plains Conservation Center, will lead us on a revealing adventure into the world of "botanista" rebels. Engage with seemingly innocuous plants, armed to their apical meristems with chemical, biological, physical and mechanical defenses. You will never walk past a plant with the same non-chalance. **LOCATION: DBG, Gates Hall.**

**January 25 Gardening with**

**Natives.** Mikl Brawner, Harlequin's Garden of Boulder.

**February 22 Denver's Natural Areas Program.** Gayle Weinstein. The Natural Areas Program selects sites throughout Denver that retain or have the potential to reestablish fundamental natural features that existed prior to early development.

**March 22 Pakistan.** Dr. Dan Johnson, Curator of Native Plants at DBG, will give a presentation on his 2001 trip to Pakistan, where "...the varied landscape only hints at the rich flora of the region, from the bristling mounds of *Acantholimon lycopodoides* to the windswept *Betula utilis* at treeline."

**April 26 Topic TBA.** Dr. Leo Bruederle, the University of Colorado at Denver.

### Plateau Chapter

Chapter activities are scheduled throughout the year. For more information, contact Chapter President Jeanne Wenger at 970-256-9227, stweandjaw@acsol.net or Program Chair Lori Brummer at 970- 641-3561, lbrummer@gunnison.com.

### Southeast Chapter

Activities are scheduled throughout the year. The chapter is recruiting for the office of President. For chapter information or to volunteer, contact Doris Drisgill, Ddrisgill@cs.com, 719-578-1091, or George Cameron, gpcameron@juno.com, 719-634-4431.

### Southwest Chapter

For news and activities, contact Chapter President Sandy Friedley at 970-884-9245 or by e-mail at friedley@mydurango.net.

#### Aquilegia via Email

*Aquilegia* is available via email. Send your email address to Eric Lane, eric.lane@ag.state.co.us, or Alice Guthrie, molly82@earthlink.net.



Colorado Native Plant Society

# Aquilegia

The Colorado Native Plant Society is a non-profit organization dedicated to the appreciation and conservation of the Colorado native flora. Membership is open to all with an interest in our native plants, and is composed of plant enthusiasts both professional and non-professional.

Please join us in helping to encourage interest in enjoying and protecting Colorado's native plants. The Society sponsors field trips, workshops, and other activities through local chapters and statewide. Contact the Society, a chapter representative, or committee chair for more information.

## Schedule of Membership Fees

Life .....	\$250
Supporting .....	\$50
Organization or Corporate .....	\$30
Family or Dual .....	\$20
Individual .....	\$15
Student or Senior .....	\$8

## Membership Renewal/Information

Please direct all membership applications, renewals, and address changes to the Eric Lane (Chair of Membership), Colorado Native Plant Society, P.O. Box 200, Fort Collins, CO 80522. Please direct all other inquiries regarding the Society to the Secretary at the same address.

*Aquilegia* is published four or more times per year by the Colorado Native Plant Society. This newsletter is available to members of the Society and to others with an interest in native plants. Articles for *Aquilegia* may be used by other native plant societies or non-profit groups, if fully cited to author and attributed to *Aquilegia*.

Articles not exceeding 2000 words in length and shorter items fewer than 500 words in length, such as unusual information about a plant, are especially welcome. Previously published articles submitted for reprinting require permission. Camera-ready line art or other illustrations are also solicited. Please include author's name and address, although anonymity may be requested. Articles submitted via e-mail or on disks (IBM preferably) are appreciated. Please indicate word processing software and version; if possible, submit as an RTF (rich text format) file.

Please direct all contributions to the newsletter to:

**Alice Guthrie**  
509 Collyer

Longmont, CO 80501

E-Mail: [molly82@earthlink.net](mailto:molly82@earthlink.net)  
[guthriea@ci.boulder.co.us](mailto:guthriea@ci.boulder.co.us)

## Officers

President .....	Laurel Potts ....	970-328-8633
Vice-President ...	David Anderson ..	970-484-0774
Secretary .....	Kim Regier ....	303-556-8309
Treasurer .....	Naomi Nigro ....	303-366-6033

## Board of Directors

Dick Fisher (05) ....	Steamboat .....	
.....	Springs .....	970-276-4448
Sue Kamal (05) ....	Greeley .....	970-353-9240
Ivo Lindauer (05) ..	Parachute .....	970-285-1112
Laurel Potts (05) ...	Eagle .....	970-328-8633
John Proctor (05) ...	Walden .....	970-723-8204
Jennifer Ackerfield (06) .....		
John Giordanengo (06)	Golden .....	303-996-2760
Brad Johnson (06) ..	Fort Collins ..	970-491-6932
Gwen Kittel (06) ...	Boulder .....	303-258-0908
Jan Loechel (06) ...	Golden .....	303-458-4262

## Chapter Presidents

Boulder .....	Tommi Scanes ...	303-682-1208
Fort Collins ....	Annette Miller ...	970-495-3240
Metro-Denver. . .	Naomi Nigro ....	303-366-6033
Plateau .....	Jeanne Wenger ...	970-256-9227
Southeast .....	Doris Drisgill & .	719-578-1091
.....	George Cameron .	719-634-4431
Southwest .....	Sandy Friedley ..	970-884-9245

## Standing Committees and Chairs

Conservation ...	Vacant .....	
Education and Outreach .....		
.....	Jill Handwerk ...	970-221-3460
Endowment ...	Leo Bruederle ...	303-556-3419
Field Studies ...	Vacant .....	
Field Trips .....	Ivo Lindauer .....	970-285-1112
Finance .....	Naomi Nigro ....	303-366-6033
Horticulture and. .	Laurel Potts & ...	970-328-8633
Restoration ...	Lisa Tasker .....	970-948-4857
Media .....	Bob Clarke .....	970-242-6067
Membership. . .	Eric Lane .....	303-239-4182
Rare Plant .....	Eleanor Von Barga	
Monograph .....		303-756-1400
Research Grants. .	Jan Loechel .....	303-458-4262
Sales .....	April Wasson ....	303-763-7679
Workshop .....	Mignon Macias ...	303-249-2977

## MEMBERSHIP APPLICATION AND RENEWAL FORM

Name(s) \_\_\_\_\_

Address \_\_\_\_\_

(Address) \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ E-mail \_\_\_\_\_

Chapter: ☐ Boulder ☐ Fort Collins ☐ Metro Denver ☐ Plateau ☐ Southeast ☐ Southwest

In addition to my membership, I have included \$\_\_\_\_\_ as a contribution to the John Marr Fund (endowment in support of small grants-in-aid of research), \$\_\_\_\_\_ as a contribution to the Myrna P. Steinkamp Memorial Fund (endowment in support of small grants-in-aid of research), or \$\_\_\_\_\_ as a general contribution to the Society.

## MEMBERSHIP CLASS:

Dues cover a 12-month period.

- ☐ Individual, \$15.00  
☐ Family/dual, \$20.00  
☐ Senior, \$8.00  
☐ Student, \$8.00  
☐ Corporate, \$30.00  
☐ Supporting, \$50.00  
☐ Lifetime, \$250.00



CONPS IS A NON-PROFIT ORGANIZATION — DUES AND CONTRIBUTIONS ARE TAX-DEDUCTIBLE

# CALENDAR - 2004-2005

## WORKSHOPS

Nov. 6, 7      **Violaceae of Colorado**  
 Jan. 15, 16   **Plant Ecology: Beginning Soils**

## BOARD MEETINGS

November 13  
 January 8  
 March 5  
 April 9  
 May TBD, West Slope

## CHAPTER EVENTS

### Boulder Chapter

November 11   **Xeriscaping with Natives in Colorado**  
 December 9   **Potpourri of Flower Pictures with Peripatetic Ecological Annotations**  
 January 13     **Boulder County's Rare Plants**  
 February 10   **The Wonderful World of Common Names**

Mar. & April   **Topic TBA**  
 May 12         **Annual Picnic**  
                     **Fort Collins Chapter**  
 November 3   **Conservation of Rare Plants of Colorado**  
 December 7   **Effects of Deicers on Tree Physiology and Seed Germination**  
 February       **Soil Seedbank Studies in Teddy Roosevelt National Park**  
 March           **Rare Plants of Larimer County**  
 April             **Native Plants for Landscaping**  
                     **Metro-Denver Chapter**  
 October 26     **The Use of Morphology and Genetics in Determining Relationships within a Desert Sunflower Genus**  
 December 7     **Shock and Awe: Weapons of Botanical Defense**  
 January 25      **Gardening with Natives**  
 February 22     **Denver's Natural Areas Program**  
 March 22        **Pakistan**  
 April 26         **Topic TBA**

TIME SENSITIVE MATERIAL

Colorado Native Plant Society

P.O. Box 200  
 Fort Collins, Colorado 80522  
<http://www.comps.org>